



## CVT-5002SFP+

10GBase-R Fiber Optics 10G SFP+ to  
10G SFP+ Standalone Media Converter

### Description

Connection Technology System (CTS) CVT-5002SFP+ stands out as a two-port pluggable 10 Gigabit fiber-to-fiber media converter for a number of dissimilar 10 Gigabit fiber devices. CVT-5002SFP+ supports the media conversion at 10 Gigabit over link distance up to 300 meters with 10GBase-SR multi-mode fiber or 10GBase-LR single-mode fiber standards. To Deploy the bidirectional media converter, CVT-5002SFP+ is required to individually connect 10Gbase-SR multi-mode device or 10Gbase-LR single-mode device, or in pairs at each end of long-distance fiber links.

CVT-5002SFP+ supports SFP+ to SFP+ fiber connection. The data transfer is protocol transparent and done by 3R (Re-amplifying, Re-shaping, Re-timing) regeneration between the different fiber optics devices. With the forwarding capacity at the full wire speed, CVT-5002SFP+ is the most optimized and simplest solution for dispersed network that media conversion is required between multi-mode fiber segments separated due to geographical limit.

## Features

- Support 10 Gigabit Fiber to Fiber full duplex conversion
- Comply with IEEE 802.3ae 10GBASE-R
- LED Indicators for link and power status
- Support 3R (Re-amplifying, Re-shaping, Re-timing) optical signal regeneration
- Fully Compatible with CTS CVT-RACK-16 Series

### Target Applications

- Point-to-point fiber connection and deployment for long distance which requires reliable and stable link over 10Gigabit devices

## Specification

### ■ Interface

-2 x 10GBase-R SFP+ Slot

### ■ Standards

-IEEE 802.3ae 10Gb/s Ethernet  
-Comply with SFF-8431

### ■ H/W Specification

-Jumbo Frame: 9K Bytes

### ■ Forward/Filter Rate

-10G: 14,880,000/14,880,000pps

### ■ LED

Power, F/O1, F/O2

### ■ Power Requirement

-Power Input (Main body): DC 5V  
-Power Adapter (Including in package):  
Input: AC 100~240V, 50/60Hz  
Output: DC 5V, 2A  
-Max. Power Consumption: 5W (17 BTU/h)

### ■ Environmental Condition

-Operation: 0°C~50°C  
-Storage: -20°C~60°C  
-Humidity: 5%~90% RH, Non-Condensing

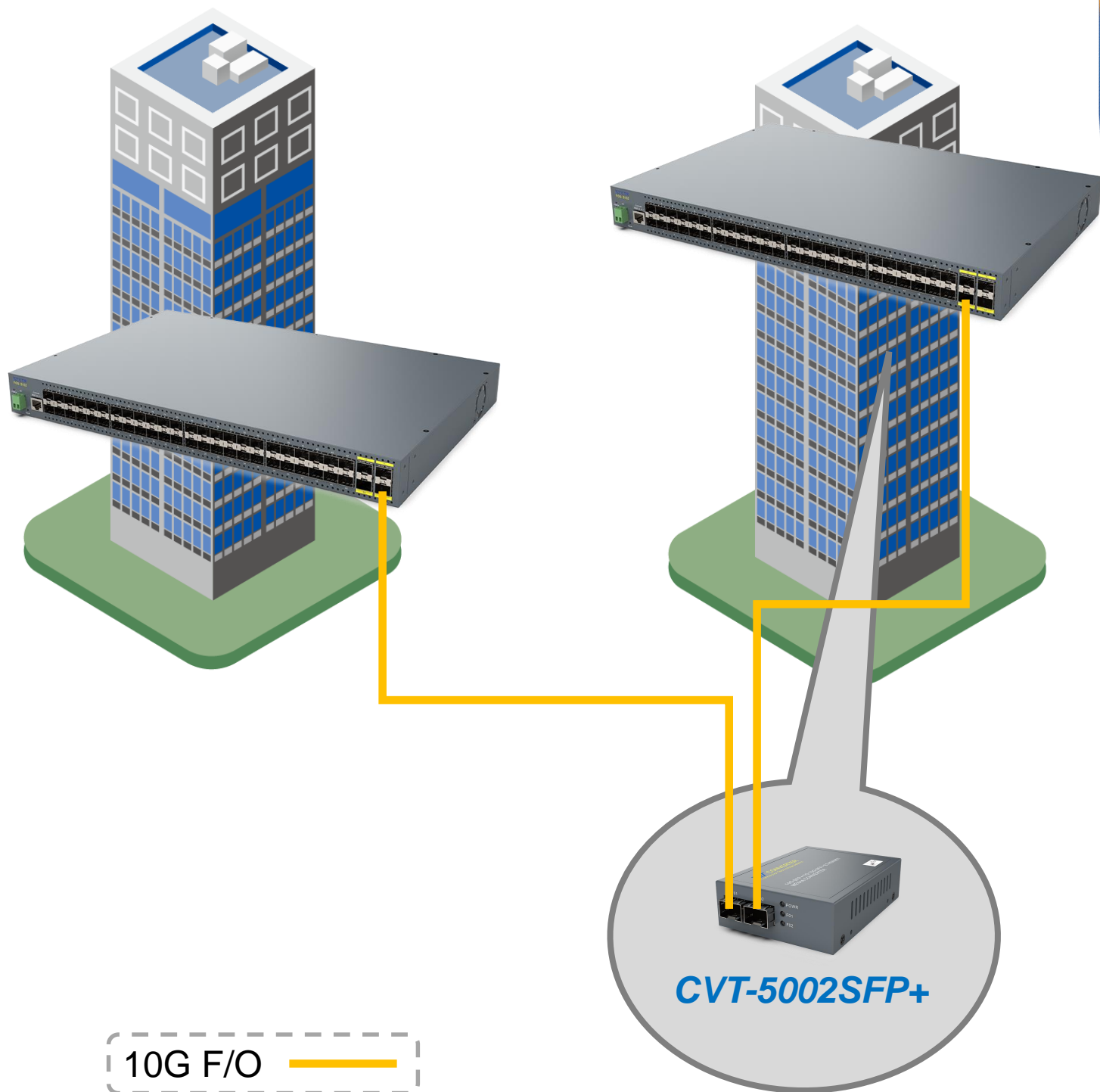
### ■ Dimension & Weight

Size: 71 x 94 x 26mm (W x D x H)  
Weight: 240 g

### ■ EMC/Safety

FCC Class A, CE,  
ESD  
- Air Discharge: +/-8kV  
- Contact Discharge: +/-4kV  
EFT  
- AC Input: +/-1kV  
Surge Protection: +/-1kV

# Application Diagram



10G F/O —

# Order Information

Model	Fiber Slot			Support Power Source
	Speed	Type	Slot	
CVT-5002SFP+	10Gbps	SFP	1	External AC to DC Power Adapter

## Accessory

### SFP-51

Model	Specification					
	Speed	Type	Connector	Distance	Wavelength	Operating Temperature
SFP-51FC	10Gbps	MM	LC	300M	850nm	0°C~70°C
SFP-51FC(SM-10/20/40)	10Gbps	SM	LC	10/20/40KM	1310/1310/1550nm	0°C~70°C
SFP-51W2A (SM-10/20/40)	10Gbps	WDM	LC	10/20/40KM	TX: 1270/1270/1270nm RX: 1330/1330/1330nm	0°C~70°C
SFP-51W2B (SM-10/20/40)	10Gbps	WDM	LC	10/20/40KM	TX: 1330/1330/1330nm RX: 1270/1270/1270nm	0°C~70°C

### SFP-50

Model	Specification			
	Speed (Gbps)	Connector	Distance	Operating Temperature
SFP-50TP-MG(30M)	10	RJ-45	30M @ Cat 6A	0°C~65°C
	2.5/5		50M @ Cat 5E	
	1G		100M @ Cat 5E	

## Slim Type Installation

Model	Mounting Method	Support Model
SRC/CVT Slim Wall Mount Kit	Slim type wall mounting	SRC/CVT Series Media Converter
SRC/CVT Slim Wall+DIN Rail Kit	Slim type wall mounting & DIN-rail	SRC/CVT Series Media Converter

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Connection Technology Systems (CTS) reserves the right to change specification without prior notice.